

*Crosby Medical Officer's Report*

Borough of Crosby

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Annual Report

of the

Medical Officer of Health

For the Year 1948



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# BOROUGH OF CROSBY

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MAYOR : MR. ALDERMAN S. CHAFFERS, J.P.

DEPUTY MAYOR : MR. ALDERMAN J. ALLEN JONES, J.P.

TOWN CLERK : HAROLD O. ROBERTS, Esq.,  
D.P.A. (L'pool), Barrister-at-Law.

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## Health Committee at the end of 1948

*Chairman :*

MR. ALDERMAN J. MORRIS.

*Vice-Chairman :*

MR. COUNCILLOR H. S. DICKSON.

THE MAYOR  
THE DEPUTY MAYOR } *Ex-Officio.*

Mr. Alderman G. W. BEVAN	Mr. Councillor R. J. HOLMAN
„ „ W. CUMMINS	„ „ H. R. KEEGAN
„ „ J. S. DUCKELS	„ „ G. L. MCARTHUR
„ „ A. G. JAMIESON, J.P.	„ „ T. D. MCKILLOP
Alderman Miss F. ROLLO, J.P.	„ „ J. R. PEACH
Mr. Alderman A. S. WILLIAMS	„ „ E. ROSEWARNE
„ Councillor H. E. CASSIDY	„ „ E. H. SPENCER
„ „ J. G. ECCLES	„ „ T. A. UTLEY
„ „ W. O. GRIFFITH	„ „ F. WARD
„ „ S. J. HEBBERT	

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## Medical Services Sub-Committee

(Discontinued after June 1948)

*Chairman :* MR. ALDERMAN J. MORRIS.

THE MAYOR  
THE DEPUTY MAYOR } *Ex-Officio.*

Mr. Alderman A. G. JAMIESON, J.P.	Mr. Councillor J. G. ECCLES
„ „ A. S. WILLIAMS.	„ „ R. J. HOLMAN
Mr. Councillor H. S. DICKSON	„ „ J. R. PEACH
Mr. Councillor E. ROSEWARNE	

## STAFF OF THE PUBLIC HEALTH DEPARTMENT, 1948.

*Medical Officer of Health :*

A. W. J. CUNNINGHAM, M.A., M.D. (Cantab.), D.P.H. (Liverpool).  
(Whole-time. Retired 30/9/48).

J. G. HAILWOOD, M.D., CH.B., M.R.C.S., L.R.C.P., D.P.H.  
(Part-time. Appointed 1/10/48).

*Deputy Medical Officer of Health :*

SUSAN H. MONTGOMERY, M.B., CH.B. (Liverpool).  
(Part-time only from 5/7/48).

*Assistant Medical Officer of Health :*

\*LILIAN W. HUGHES, M.B., CH.B. (Liverpool).

*Dental Surgeons :*

\*J. F. COWELL, L.D.S., R.C.S. (England). (Part-time).

A. H. CLEAVER, L.D.S., S.F.P.S. (Glasgow). (Part-time. Resigned,  
May, 1948).

\*W. G. PATTISON, L.D.S. (Part-time. Acting).

*Orthoptist :*

\*Miss R. MORRIS, D.B.O. (Part-time).

## CONSULTANT STAFF.

*Gynaecologist :*

\*SIDNEY B. HERD, M.D., CH.B., F.R.C.O.G. (Part-time).

*Ear, Nose and Throat Surgeon :*

\*JOHN ROBERTS, M.D., CH.B., F.R.C.S., L.R.C.P. (Part-time).

*Ophthalmic Surgeon :*

\*J. BERKSON, M.D., CH.B., D.O.M.S. (Part-time).

## OTHER OFFICERS OF THE DEPARTMENT :

*Chief Sanitary Inspector :*

G. F. LEWIS, M.R.S.I., M.S.I.A., D.P.A. (Liverpool).

*Deputy Chief Sanitary Inspector :*

R. SPENCER, M.S.I.A.

*District Sanitary Inspectors :*

D. BARBER, A.R.S.I., M.S.I.A.

P. M. WATSON, A.R.S.I., M.S.I.A.

E. WARNER, A.R.S.I., M.S.I.A.

*Senior Health Visitor :*

\*Miss K. ARMSTRONG, S.R.N., S.R.C.N., S.C.M., H.V. Cert.

*District Health Visitors :*

\*Miss D. PARKINSON, S.R.N., S.C.M., H.V. Cert.

\*Miss C. E. FOX, S.R.N., S.C.M., H.V. Cert.

\*Miss M. WILKINSON, S.R.N., S.R.C.N., S.C.M., H.V. Cert.

\*Miss H. BLACK, S.R.N., S.C.M., H.V. Cert.

\*Miss M. V. RIMMER, S.R.N., S.C.M., R.F.N., H.V. Cert.

\*Miss E. BASSETT, S.R.N., S.C.M., R.F.N., H.V. Cert.

## CLERICAL STAFF :

F. C. WILKINSON. (Returned from special leave on 5 4 48, and resigned  
on 11/7/48).

J. CLARKE.

\*Miss M. CULLIMORE.

\*Miss M. JONES.

Miss A. WHALEN.

\*Miss J. DRAPER.

\*Miss A. HOCKENHULL.

\*Miss J. M. CLARKE.

Officers marked \* were absorbed into the Lancashire County Council  
staff on 5/7/48, the date of inception of the National Health Service Act,  
1946.

TOWN HALL,  
WATERLOO,  
LIVERPOOL 22.

MR. MAYOR, LADIES AND GENTLEMEN,

I have the honour to present the twelfth Annual Report on the Health of the Borough of Crosby.

On July 5th, 1948, several new Acts of Social Legislation came into effect. One of these was the National Health Service Act, 1946, which provides a full Medical Service, without personal cost, to all who care to avail themselves of it, including the services of the Family Doctor and Hospital Facilities. The Act also requires Local Health Authorities, that is the Councils of Counties and County Boroughs, to provide a number of medical services, some of which were taken from Borough and District Councils.

As a result, unfortunately, the Borough Council has lost control of all its Maternity and Child Welfare Services, which had been built up with notable effect since the Incorporation of the Borough in 1936. Diphtheria Immunisation and the Ambulance Service have also passed to the County Council, while the Regionalisation of the Hospital Services has relieved the Borough from its liability to pay the cost of maintaining in Hospital patients suffering from infectious disease.

On the other hand a Divisional Health Committee—a sub-committee of the County Health Committee—has been formed for the Crosby and West Lancashire Areas, to administer the Personal Health Services, including Maternity and Child Welfare, Midwifery, Home Nursing, Home Helps, Immunisation and Vaccination, and Ambulance Services. Crosby has six representatives on this Committee, one of whom, Alderman J. Morris, has been elected Chairman. Thus a direct interest in the day-to-day control of all these services has been retained.

The entry of the New Health Service has been helped by a good year, in which the incidence of infectious disease has been low. The general health of the Borough has remained satisfactory. Although the Birth Rate has fallen, the Death Rate has also fallen appreciably. The most satisfactory item to record, however, is a fall from 57 to 39 per 1000 in the Infantile Mortality Rate, always an indication of the general health of the community.



Dr. A. J. W. Cunningham retired at the end of September from the position of Medical Officer of Health, after many years connected with the Health Services of the Borough and the former Great Crosby Urban District. The present excellent Health Record of the Borough is largely due to his foresight and work during the war years, when he also played his part in Civil Defence. It is difficult to follow adequately in the footsteps of one whose knowledge is so wide and whose outlook is so broad, but it is good to know that Dr. Cunningham is nearby, and therefore available for consultation in case of need. May he have a long and happy retirement.

Finally I wish to thank all members of the Committee, and especially the Chairman, for their continued helpful and ready interest in everything concerning the Health of the Borough in this my first year of office.

I am, Ladies and Gentlemen,

Your obedient servant,

J. G. HAILWOOD,

*Medical Officer of Health.*

# Deaths Registered in the Borough since its Formation

Year	Population Registrar General's Estimate	Male	Female	Total	Death Rate per 1000 est. pop. Crosby	Death Rate per 1000 pop. England & Wales	Deaths Infants under 1 year of age	Death Rate per 1000 live births	Legitimate births	Rate per 1000 legit. births	Rate per 1000 illegitimate births	Deaths from Pulmonary Tuberculosis	Deaths from:—		
													Zymotic Diseases	Cancer all ages	Heart Disease
1937	55,580	359	352	711	12.7	12.4	47	56	44	53	3	35	14	98	159
1938	55,780	320	319	639	11.4	11.6	47	58	41	53	6	33	17	111	144
1939	55,690	328	377	705	12.7	12.1	53	70	43	59	10	22	21	104	166
1940	54,280	365	387	752	13.8	14.3	53	64	47	59	6	29	8	92	178
1941	51,290	436	479	915	17.8	12.9	66	87	57	80	9	40	22	103	172
1942	53,010	317	314	631	11.9	11.6	57	61	53	60	4	36	9	93	148
1943	52,160	355	365	720	13.8	12.1	50	51	41	44	9	40	8	101	189
1944	52,800	365	365	730	13.8	11.6	58	54	48	48	10	34	4	116	197
1945	53,670	364	372	736	13.7	11.4	39	42	33	42	6	35	2	123	222
1946	57,540	379	391	770	13.3	11.5	57	53	51	50	6	47	12	114	225
1947	58,170	417	367	784	13.4	12.6	65	57	55	50	10	41	14	118	225
1948	59,060	348	340	688	11.6	10.8	40	39	39	40	1	30	9	113	216



## SECTION I.

## Vital Statistics.

Area, 6,852 acres (Land and inland water 4,771 acres, Foreshore 2,081 acres).

Population (Census 1931), 50,569.

Population (Estimated 1948), 59,060.

Number of inhabited houses (end of 1948) according to Rate Books 16,185.

Rateable value at October, 1948, £517,915.

Sum represented by a penny rate (Estimated 1948-49), £2,060.

Live births—

	Total	M.	F.
Legitimate .....	963	496	467
Illegitimate .....	46	19	27
Total.....	1,009	515	494
Birth-rate per 1,000 of the estimated resident population			17.0

	Total	M.	F.
Stillbirths .....	25	15	10
Rate per 1,000 total (live and still) births			24

	Total	M.	F.
Deaths .....	688	348	340
Death-rate per 1,000 of the estimated average population			11.6

Deaths from puerperal causes—

	Deaths
Puerperal sepsis .....	—
Other Maternal causes .....	—
Total.....	—
Death-rate per 1,000 total (live and still) births	Nil

Death-rate of infants under one year of age:—

All infants per 1,000 live births .....	39
Legitimate infants per 1,000 legitimate live births .....	40
Illegitimate infants per 1,000 illegitimate live births ...	21

Deaths from Cancer (all ages) .....	113
„ „ Measles (all ages) .....	2
„ „ Whooping Cough (all ages) .....	1
„ „ Diarrhoea (under 2 years of age)....	5

BIRTH RATES, CIVILIAN DEATH RATES, ANALYSIS OF MORTALITY, MATERNAL MORTALITY, AND CASE RATES FOR CERTAIN INFECTIOUS DISEASES IN THE YEAR 1948.

(Provisional Figures based on Quarterly Returns).

	England and Wales	126 County Boroughs and Great Towns, including London	148 Smaller Towns (Resident Populations 25,000 to 50,000 at 1931 Census)	London Administrative County	Borough of Crosby
	Rates per 1,000 Civilian Population				
BIRTHS					
Live .....	17.9	20.0	19.2	20.1	17.0
Still .....	0.42	0.52	0.43	0.39	0.42
DEATHS					
All Causes .....	10.8	11.6	10.7	11.6	11.6
Typhoid and Paratyphoid Fevers ..	0.00	0.00	0.00	0.00	-
Whooping Cough .....	0.02	0.02	0.02	0.01	0.01
Diphtheria .....	0.00	0.00	0.00	0.01	-
Tuberculosis .....	0.51	0.59	0.46	0.63	0.56
Influenza .....	0.03	0.03	0.04	0.02	0.05
Smallpox .....	-	-	-	-	-
Acute Poliomyelitis and Polioencephalitis ..	0.01	0.01	0.01	0.00	-
Pneumonia .....	0.41	0.38	0.36	0.54	0.35
DEATHS					
	Rates per 1,000 Live Births				
Infants under 1 year of age, all causes. .	34	39	32	31	39
Enteritis and Diarrhoea in children under two years of age. ....	3.3	4.5	2.1	2.4	4.95
	Rates per 1,000 Total Births (Live and Still)				
MATERNAL MORTALITY					
Abortion with Sepsis (No. 140) .....	0.11	Details not available for these sections			-
Abortion without Sepsis (No. 141) .....	0.05				-
Puerperal Infections (No. 147) ..	0.13				-
Other Maternal Causes Nos. 142-6 & 148-150...	0.73				-

A dash (-) indicates that there were no deaths.

VITAL STATISTICS FOR THE AREA. YEARS  
1900, 1910, 1915 AND 1948

9

	1900		1910		1915		1948 Borough of Crosby
	Gt. Crosby	W'loo & Seaforth	Gt. Crosby	W'loo & Seaforth	Gt. Crosby	W'loo & Seaforth	
Population ..	7974	22,500	14,300	27,780	13,781	27,473	59,060
	30,474		42,080		41,254		
Births .....	156	575	247	641	270	619	1,009
	731		888		889		
Birth Rate.....	19.61	23.00	17.27	23.07	19.73	22.53	17.0
Deaths .....	100	305	123	274	123	403	688
	405		397		526		
Death Rate ....	12.57	12.20	8.60	9.86	8.99	14.66	11.6
Deaths of Infants of under 1 year of age.....	12	76	28	51	19	56	40
	88		79		75		
Deaths from : Diphtheria .....	—	3	2	4	4	5	—
Scarlet Fever	—	—	—	2	2	2	1
Cancer .....	?	5	6	28	8	39	113
Heart Disease	?	24	11	13	11	25	216
Pulmonary Tuberculosis.....	?	24	7	25	12	16	30

	Per 1,000 of estimated population				Maternal Mortality rate		Rate of deaths under one year per 1000 live births
	Live birth- rate	Crude death- rate	Death Rate from Tuberculosis of Respiratory System	Death- rate from Cancer	Per 1000 live births	Per 1000 total live & still births	
Mean of 5 years,							
1943-1947	18.7	13.6	0.71	2.08	1.54	1.50	51
Year 1947	19.4	13.4	0.70	2.02	2.64	2.57	57
„ 1948	17.0	11.6	0.50	1.91	-	-	39

Increase or decrease in 1948 on 5 years' average 1943-1947

1943-1947	- 1.7	- 2.0	- 0.21	- 0.17	- 1.54	- 1.50	- 12
Previous year	- 2.4	- 1.8	- 0.20	- 0.11	- 2.64	- 2.57	- 18

**List of causes of Death in the Borough during the  
year 1948.**

	Males	Females	Total
1. Typhoid and Paratyphoid Fevers	—	—	—
2. Cerebro-Spinal Fever	1	1	2
3. Scarlet Fever	—	1	1
4. Whooping Cough	—	1	1
5. Diphtheria	—	—	—
6. Tuberculosis of respiratory system	14	16	30
7. Other forms of Tuberculosis	1	2	3
8. Syphilitic Disease	2	1	3
9. Influenza	—	3	3
10. Measles	—	2	2
11. Acute Poliomyelitis and Polio- encephalitis	—	—	—
12. Acute Infectious Encephalitis	—	—	—
13. Cancer of buccal cavity and oesophagus (males), uterus (females)	7	5	12
14. Cancer of stomach and duodenum	8	10	18
15. Cancer of breast	—	13	13
16. Cancer of all other sites	47	23	70
17. Diabetes	2	4	6
18. Intra-cranial Vascular Lesions	24	55	79
19. Heart Disease	99	117	216
20. Other diseases of the circulatory system	17	8	25
21. Bronchitis	18	7	25
22. Pneumonia	13	8	21
23. Other respiratory diseases	4	2	6
24. Ulceration of stomach or duodenum	2	3	5
25. Diarrhoea (under two years of age)	1	4	5
26. Appendicitis	2	—	2
27. Other digestive diseases	10	5	15
28. Nephritis	8	6	14
29. Puerperal and Post-abortion Sepsis	—	—	—
30. Other maternal causes	—	—	—
31. Premature Birth	5	2	7
32. Congenital Malformations, Birth Injury and Infantile Disease	7	8	15
33. Suicide	3	5	8
34. Road Traffic Accidents	3	1	4
35. Other violent causes	13	2	15
36. All other causes	37	25	62
TOTAL DEATHS	348	340	688



### **General Provision of Health Services in the Area HOSPITALS.**

#### **SMALLPOX AND OTHER INFECTIOUS DISEASES**

There is no Infectious Diseases Hospital in the district, but an arrangement is in force whereby cases are treated in the Liverpool Infectious Diseases Hospitals. Patients are received until the Hospitals are full, the available accommodation being sufficient for the needs of the district.

#### **TUBERCULOSIS**

Administered by the County Council.

#### **MATERNITY CASES**

There is no Maternity Hospital in the district, but the Liverpool Hospitals are available.

#### **CHILDREN'S AND OTHERS**

Waterloo and District General Hospital, also Bootle and Liverpool Hospitals.

Three Institutions in the district receive unmarried mothers, illegitimate infants or homeless children.

#### **AMBULANCE FACILITIES**

(a) For Infectious Cases—Liverpool Corporation Motor Ambulance,  
(b) For non-infectious cases and accident cases—Motor Ambulances, Bootle General Hospital, Lancashire Public Assistance Committee, and Merseyside Hospitals (Penny in the £ subscribers) Ambulance, and the Borough of Crosby Ambulance Service.

### **CLINIC AND TREATMENT CENTRES**

\*Services provided by

**CROSBY CORPORATION**

#### **MATERNITY AND CHILD WELFARE**

##### **1. Ante-Natal and Post-Natal Clinics.**

- (a) The Clinic, Prince Street, Waterloo.  
Friday mornings.
- (b) Seaforth Clinic, Cecil Road, Seaforth.  
Monday afternoons.
- (c) Crosby Clinic, Alexandra Hall, Crosby,  
Friday afternoons.

##### **2. Child Welfare Clinics.**

- (a) The Clinic, Prince Street, Waterloo.  
Monday and Wednesday afternoons.
- (b) Seaforth Clinic, Cecil Road, Seaforth.  
Wednesday afternoons.
- (c) Crosby Clinic, Alexandra Hall, Crosby.  
Tuesday and Thursday afternoons.
- (d) Moorside Clinic, Moorside Park Pavilion,  
Moorside Road, Crosby.  
Monday afternoons.

\*Transferred to Lancashire County Council on 5/7/48.

Services provided by  
CROSBY CORPORATION (Continued)

3. Immunisation Clinic.
  - (a) The Clinic, Prince Street, Waterloo.  
Alternate Friday afternoons.
  - (b) Alexandra Hall, Crosby.  
Alternate Friday afternoons.
4. Artificial Sunlight Clinic.
  - (a) The Clinic, Prince Street, Waterloo.  
Tuesday mornings and Friday afternoons.

Services Provided by  
LANCS. COUNTY COUNCIL

SCHOOL MEDICAL SERVICES.

1. Minor Ailments Clinic.
  - (a) The Clinic, Prince Street, Waterloo.  
Every morning—treatment.  
Friday morning—Doctor's consultation.
  - (b) Seaforth Clinic, Cecil Road, Seaforth.  
Every morning, except Saturday—treatment.  
Monday morning—Doctor's consultation.
  - (c) Alexandra Hall, Crosby.  
Thursday morning—Doctor's consultation.
2. Dental Clinic.
  - (a) The Clinic, Prince Street, Waterloo.  
Monday, Tuesday, Wednesday and Thursday  
mornings and Thursday afternoons.
  - (b) Alexandra Hall, Crosby.  
Monday, Tuesday, Wednesday and Friday  
mornings.  
Gas sessions when necessary.
3. Orthodontic Clinic
  - (a) Alexandra Hall, Crosby.  
Wednesday afternoons.
4. Ophthalmic Clinic
  - (a) The Clinic, Prince Street, Waterloo.  
Monday and Wednesday mornings.
5. Ear, Nose and Throat Consultant Clinic.
  - (a) The Clinic, Prince Street, Waterloo.  
Tuesday mornings when necessary.
  - (b) Waterloo Hospital.  
Operations when necessary.



Services provided by  
LANCS. COUNTY COUNCIL (Continued).

6. Artificial Sunlight Clinic.  
The Clinic, Prince Street, Waterloo.  
Tuesday mornings and Friday afternoons.
7. Orthopaedic Clinic.  
L.C.C. Clinic, Linacre Road, Litherland.  
Thursday mornings.

### OTHER SERVICES

8. Tuberculosis Clinic.  
The Dispensary, "Ellesmere," Crosby  
Road N., Waterloo. By appointment.
9. Venereal Disease Clinics.
  - (a) Bootle General Hospital, Derby Road,  
Bootle.
  - (b) Liverpool Hospitals.

### Miscellaneous.

### PROFESSIONAL NURSING IN THE HOME

There are two Nursing Associations in the Borough :

1. The Waterloo and Seaforth Nursing Association which employs two nurses.
2. The Great Crosby Nursing Association which employs three nurses.

### MIDWIVES

At 5th July, 1948, there were 20 qualified Midwives practising in the Borough. Five of these were directly employed by the Lancashire County Council, as Supervising Authority. Three of the District Nursing Staff operated as Nurse-Midwives, and the remaining 12 were engaged in private nursing homes in the area.

### BACTERIOLOGICAL WORK

All specimens requiring bacteriological examination are submitted to Professor Robinson, City Bacteriologist, City Laboratories, Liverpool.

## WATER SUPPLY

Water is supplied to the district by Liverpool Corporation. The chief source of supply is Lake Vyrnwy in Wales. The water is moderately soft in character and is excellent for all domestic purposes. All houses are supplied from the public mains.

The supply in the area over the past year has been satisfactory, both in quality and quantity.

Bacteriological examinations are made regularly by the Liverpool City Bacteriologist, these routine examinations take place in the City of Liverpool and at the Prescott Storage Reservoirs. The results of the chemical analyses have all been satisfactory.

The water is not liable to plumbo-solvent action.

The supplies both from Rivington and Lake Vyrnwy are treated by slow sand filtration and chlorination, and further chlorination is carried out at Prescott Storage Reservoirs.

## SCAVENGING

This work is carried out by the Corporation workmen under the supervision of a Cleansing Superintendent directed by the Borough Engineer.

The main roads are cleansed daily, other roads at less frequent intervals—at least once weekly. The district is therefore kept in a clean and tidy state, the whole of the 76 miles of roads with their passages receiving regular attention.

## NATIONAL ASSISTANCE ACT, 1948—SECTION 47.

With the co-operation of Medical Practitioners in the district, it has been possible to secure the removal of all cases found to be in need of care and attention, without recourse to the procedure laid down in Section 47 of the Act.

## \*SECTION 3.

**Maternity and Child Welfare****VITAL STATISTICS FOR 1948 :—**

Live Births	1,009	Live Birth Rate	17.0
Still Births	25	(per 1000 of population)	
Total Births	1,034	Still Birth Rate	24
Infant Mortality Rate	39	(per 1000 live and still births)	
Maternal Mortality Rate	Nil		

**BIRTHS AND STILL-BIRTHS REGISTERED IN THE BOROUGH  
SINCE ITS FORMATION**

Year	Population	Males	Females	Total	Legit- imate	Illegit- imate	Live Birth Rate per 1000 Pop. Crosby	Live Birth Rate Eng. & Wales	No. of Still- Births Crosby
1937	55,580	443	396	839	816	23	15.0	14.9	41
1938	55,780	417	382	799	770	29	14.3	15.1	32
1939	55,690	378	371	749	721	28	13.4	15.0	33
1940	54,280	423	407	830	791	39	15.2	14.6	7
1941	51,290	413	369	782	737	45	15.2	14.2	25
1942	53,010	492	436	928	876	52	17.5	15.8	39
1943	52,160	491	488	979	914	65	18.7	16.5	34
1944	52,800	553	508	1061	984	77	20.0	17.6	35
1945	53,670	473	450	923	849	74	17.1	16.1	19
1946	57,540	566	497	1063	1013	50	18.4	19.1	22
1947	58,170	571	563	1134	1081	53	19.4	20.5	32
1948	59,060	515	494	1009	963	46	17.0	17.9	25

**NATIONAL HEALTH SERVICE ACT, 1946.**

This Act became operative on 5th July, 1948, and from that date the administration of the Maternity and Child Welfare Services became the responsibility of the Lancashire County Council.

Before this date, in accordance with section seven of the Public Health Act, 1936, 487 live births and 12 still-births were notified. 197 births were transferred into the district from hospitals and nursing homes outside. Of the births notified and transferred into the district, 541 were visited, and 667 re-visits were made to children under the age of one year. Of the total births notified 113 were transferred out of the district.

1096 visits were made to children between the ages of one and five years, and wherever necessary, the parents were advised to obtain medical aid. 140 visits were made to children requiring special attention. Enquiries were made regarding the 12 still-births.

\* Transferred to Lancashire County Council on 5-7-48.



### INFANT WELFARE CENTRES

The clinics for Crosby residents are held at the Alexandra Hall on Tuesday and Thursday afternoons, and at Moorside Park Pavilion on Monday afternoons. The clinic for Waterloo residents is held at Prince Street on Monday and Wednesday afternoons, and that for Seaforth residents is held at Cecil Road, Seaforth, on Wednesday afternoons.

The following table shows the attendances at these clinics, and is a good indication of their popularity and usefulness.

Month	CROSBY				WATERLOO		SEAFORTH		TOTALS	
	Alex. Hall	Moorside								
	Under 1 yr.	1-5 yrs.	Under 1 yr.	1-5 yrs.	Under 1 yr.	1-5 yrs.	Under 1 yr.	1-5 yrs.	Under 1 yr.	1-5 yrs.
January	508	169	161	12	288	155	275	153	1232	489
February	480	126	206	22	312	158	301	127	1299	433
March .....	570	167	192	16	369	172	308	123	1439	478
April .....	523	154	207	10	372	156	292	123	1394	443
May .....	520	148	206	18	385	152	282	118	1393	436
June .....	537	166	208	15	355	149	362	128	1462	458
1—5/7/48	72	5	—	—	—	—	—	—	72	5
Totals	3210	935	1180	93	2081	942	1820	772	8291	2742

The Ladies of the Health Society continue to do excellent work in connection with Maternity and Child Welfare. During the year they have given assistance to a large number of necessitous families, including nursing and expectant mothers. Each case was personally investigated and the circumstances considered by them. Virol, Irradex, Maltoline and Dried Milk were supplied free or at reduced prices upon the instructions of the Society, the difference in cost being reimbursed to the Corporation out of the Society's funds. Babies garments were made by members of the Society, and supplied at cost price.

### ANTE-NATAL AND POST-NATAL CLINICS

The County Midwives continue to attend the ante-natal clinic with their patients and close co-operation is maintained between the Midwives and the Health Visitors. Where necessary patients are referred to hospital for special advice, treatment or investigation. A number of patients have been referred for dental treatment and in special circumstances have been treated by the Clinic Dentist. For these patients dentures are supplied either free of charge or at less than cost price.

Attendances at Ante-Natal and Post-Natal Clinics during the period 1st January to 5th July, 1948.

Clinic	No. of Notified Births	No. of Expectant and recent Mothers who attended Clinic	Total Attendances to Clinic	% of number attended to number of notified births	
				1948	1947
Ante-Natal .....	487	216	1090	44.3	46.2
Post-Natal .....	487	56	92	11.5	9.2

Of the 272 cases who attended the ante-natal and post-natal clinics a large number were referred to the clinic by local practitioners and by the midwives practising in the district. A small number were recommended to attend after leaving hospitals and nursing homes.

In addition to the attendances at the clinic the health visitors made 140 visits to the homes of these cases.

### ARTIFICIAL SUNLIGHT CLINIC.

Artificial Sunlight treatment was given to mothers and children suffering from anaemia, rheumatism, debility, enlarged glands and other conditions.

During the period to 5th July, 1948, 52 new cases received treatment, each one being examined by the Assistant Medical Officer before and during the course. A total of 573 attendances was made.

### AURAL CLINIC

Before treatment at the aural clinic all children are examined by the Medical Officer who then recommends suitable cases for treatment. Before 5th July, 38 new cases were treated and 112 re-visits of children for treatment were recorded.

### PUBLIC HEALTH ACT, 1936—CHILD LIFE PROTECTION

Provision has been made for carrying out the duties under Sections 206 to 220 of this Act. The Senior Health Visitor is appointed Child Life Protection Visitor and during the period to 5th July she made 33 visits to children in the care of foster parents.

The children were generally well cared for.

There are now on the register 10 registered foster parents having the care of 10 children.

### OPHTHALMIA NEONATORUM

CASES				
Number Notified	Treated		Unimpaired Vision	Deaths
	At Home	In Hospital		
1	1	—	1	—

## INFANT MORTALITY, 1948.

## Deaths of Infants under one year of age.

	Total	Under 1 wk.	1-4 wks.	1-3 mths.	3-6 mths.	6-9 mths.	9-12 mths.
Prematurity	15	12	2	1	—	—	—
Gastro-Enteritis	6	—	—	—	2	1	3
Cerebral haemorrhage	4	3	—	1	—	—	—
Asphyxia	2	1	—	—	1	—	—
Congenital Heart Disease	2	2	—	—	—	—	—
Bronchitis	2	—	—	1	—	1	—
Bacillary Dysentery (Sonne)	1	—	—	1	—	—	—
Measles	1	—	—	—	—	1	—
Congenital Debility	1	1	—	—	—	—	—
Marasmus	1	—	1	—	—	—	—
Whooping Cough	1	—	—	1	—	—	—
Broncho-Pneumonia	1	—	—	—	1	—	—
Meningitis	1	—	—	—	1	—	—
Mastoid Infection	1	—	—	1	—	—	—
Atelectasis	1	1	—	—	—	—	—
Totals	40	20	3	6	5	3	3

This total of 40 deaths gives an Infant Mortality rate of 39 per 1,000 live births



**Numbers of Deaths of Infants under One Year of Age,  
during each Year since Formation of Borough**

YEAR	TOTAL		LEGITIMATE		ILLEGITIMATE	
	M	F	M	F	M	F
1937	26	21	24	20	2	1
1938	27	20	24	17	3	3
1939	28	25	25	18	3	7
1940	29	24	24	23	5	1
1941	40	26	34	23	6	3
1942	29	28	28	25	1	3
1943	31	19	25	16	6	3
1944	31	27	23	25	8	2
1945	22	17	19	14	3	3
1946	33	24	30	21	3	3
1947	39	26	33	22	6	4
1948	21	19	21	18	—	1

### MATERNAL MORTALITY

There were no maternal deaths in the Borough during the year.

### CARE OF ILLEGITIMATE CHILDREN

These children receive the attention of our Health Visitors, but cases of particular difficulty are referred to the Lancashire County Council, who employ a specially trained Almoner for this work.

### CARE OF PREMATURE INFANTS

During the period to 5th July, 38 premature babies were born to mothers normally resident in the Borough.

Particular attention is given to such cases by the Health Visitors, who arrange for the supply of draught proof cots, gamgee jackets and special feeding bottles where necessary.

The services of a Home Help are available, or where removal to hospital is advised, this is carried out by the Borough Ambulance Service.

### HOME AND DOMESTIC HELPS

This Service was continued successfully, and at 5th July, there were six whole-time Helps employed. By this date assistance has been given to 46 cases, the charge varying with the means of the recipient, in accordance with a scale approved by the Council.

## SECTION 4.

During the year, 206 samples of food were purchased and submitted for analysis. Of these, 104 were formal samples and 102 informal, full details being set out in the following table :—

Article	Number Examined			No. adulterated or otherwise giving rise to irregularity			No. of Vendors Warned	Informations laid
	Formal	Informal	Total	Formal	Informal	Total		
Apple Juice(tinned) .....	—	1	1	—	—	—	—	—
Almond Oil .....	—	1	1	—	—	—	—	—
Arrowroot .....	—	1	1	—	—	—	—	—
Beef Sausage Meat .....	2	—	2	—	—	—	—	—
Bun Flour .....	—	1	1	—	—	—	—	—
Bun Cake Flour .....	—	1	1	—	—	—	—	—
Baking Powder .....	—	3	3	—	—	—	—	—
Brandy .....	1	—	1	—	—	—	—	—
Boracic Acid Ointment .....	—	1	1	—	—	—	—	—
Bicarbonate of Soda .....	—	1	1	—	—	—	—	—
Brawn .....	—	1	1	—	—	—	—	—
Bakery Cream (sweetened) .....	—	1	1	—	—	—	—	—
Breakfast Orange .....	—	1	1	—	—	—	—	—
Cocktail Egg Flip .....	—	1	1	—	—	—	—	—
Cider .....	—	1	1	—	—	—	—	—
Chicken Broth (Conc.) .....	—	1	1	—	—	—	—	—
Cooking Fat (blended) .....	—	2	2	—	—	—	—	—
Cough Mixture .....	—	3	3	—	1	1	1	—
Castor Oil .....	—	1	1	—	—	—	—	—
Culinary Flavoured Powder .....	—	1	1	—	—	—	—	—
Crab Paste .....	—	1	1	—	—	—	—	—
Creaming Compound .....	—	1	1	—	—	—	—	—
Chest & Lung Syrup .....	—	1	1	—	—	—	—	—
Culinary Oil .....	—	1	1	—	—	—	—	—
Currie Powder .....	—	1	1	—	—	—	—	—
Coffee Extract .....	—	1	1	—	—	—	—	—
„ Compound .....	—	3	3	—	—	—	—	—
„ (dehydrated) .....	—	1	1	—	—	—	—	—
Dandelion Coffee Essence .....	—	1	1	—	—	—	—	—
Dessert Powder .....	—	1	1	—	—	—	—	—
Epsom Salt Tablets .....	—	1	1	—	—	—	—	—
Fish Paste (potted) .....	—	1	1	—	1	1	—	—
Fish Dressing .....	—	1	1	—	—	—	—	—
Fruit Sauce .....	—	1	1	—	1	1	—	—
Fish Cake (tinned) .....	—	1	1	—	—	—	—	—
Fruit Salts .....	—	1	1	—	—	—	—	—
Gelatine Powder .....	—	3	3	—	—	—	—	—
Grey Powders .....	—	1	1	—	—	—	—	—
Grey Tablets .....	—	1	1	—	—	—	—	—
Gin .....	4	—	4	—	—	—	—	—
Gravy Powder .....	—	1	1	—	—	—	—	—
Green Tea .....	1	1	2	1	1	2	—	—
Glycerine .....	—	2	2	—	—	—	—	—
Grapefruit Squash .....	—	1	1	—	—	—	—	—
Herring Roes .....	—	1	1	—	—	—	—	—
Indian Brandec .....	—	1	1	—	1	1	1	—
Iodine .....	—	1	1	—	—	—	—	—
Jam .....	—	2	2	—	—	—	—	—
Lolly Ices .....	—	1	1	—	—	—	—	—
Lemonade Tablets (sweetened) .....	—	1	1	—	—	—	—	—
Liquid Paraffin .....	—	1	1	—	—	—	—	—
Malted Milk Powder .....	—	1	1	—	—	—	—	—
Milk Food .....	—	1	1	—	—	—	—	—
Mussels (tinned) .....	—	1	1	—	—	—	—	—
Meat Paste .....	1	—	1	1	—	1	—	—
Maté .....	—	1	1	—	—	—	—	—
Meat Pies .....	—	1	1	—	—	—	—	—
Mashed Potato Powder .....	—	2	2	—	—	—	—	—
Carried Forward .....	9	66	75	2	5	7	2	—

Article	Number Examined			No. adulterated or otherwise giving rise to irregularity			No. of Vendors Warned	Informations laid
	Formal	Informal	Total	Formal	Informal	Total		
Brought forward .....	9	66	75	2	5	7	2	—
Milk .....	89	—	89	14	—	14	—	—
Orange Flavouring .....	—	1	1	—	—	—	—	—
Orange Squash .....	—	1	1	—	—	—	—	—
Olive Oil .....	—	1	1	—	—	—	—	—
Oysters .....	—	1	1	—	—	—	—	—
Pork Sausage .....	1	—	1	—	—	—	—	—
Potted Tomato Dainty Spread ...	—	1	1	—	—	—	—	—
Pepper .....	1	2	3	—	—	—	—	—
Pickling Spice .....	—	1	1	—	—	—	—	—
Rum .....	2	—	2	—	—	—	—	—
Rennet (Raspberry flavour) .....	—	1	1	—	—	—	—	—
Rissole Mixture .....	—	1	1	—	—	—	—	—
Sauce .....	—	1	1	—	—	—	—	—
Sage .....	—	1	1	—	—	—	—	—
Sulphur Ointment .....	—	2	2	—	—	—	—	—
Spaghetti & Meat Sauce .....	—	1	1	—	—	—	—	—
Scotch Savoury .....	—	1	1	—	—	—	—	—
Sandwich Spread .....	—	3	3	—	—	—	—	—
Salad Cream .....	—	4	4	—	—	—	—	—
Salmon (and other) Creame .....	—	1	1	—	—	—	—	—
Sausages .....	1	1	2	—	1	1	—	—
Semolina .....	—	1	1	—	—	—	—	—
Seidlitz Powder .....	—	1	1	—	—	—	—	—
Tomato Soup .....	—	1	1	—	—	—	—	—
Tomato Sauce .....	—	1	1	—	—	—	—	—
Tomato Juice .....	—	1	1	—	—	—	—	—
Vinegar .....	—	1	1	—	—	—	—	—
Violet Colouring .....	—	1	1	—	—	—	—	—
Wheat Food (prepared) .....	—	1	1	—	—	—	—	—
Whisky .....	1	—	1	—	—	—	—	—
Yeast Tablets .....	—	1	1	—	—	—	—	—
Zinc Ointment .....	—	2	2	—	—	—	—	—
Totals for Year .....	104	102	206	16	6	22	2	—

Of the 206 samples taken and submitted for analysis 22, or 10·6 per cent. of the total, were reported as falling short of the required standard composition, as being definitely adulterated, or giving rise to irregularities. Details of these samples are set out in the following table.

Serial No.	Article	Formal (F) or Informal (I)	Nature of Adulteration or Irregularity	Observations
21	Fish Paste	I	Deficient of fish (fish not more than 62%), and contained an appreciable amount of tin (200 parts per million).	Communicated with manufacturers.
24	Cough Mixture	I	The sample was not labelled in accordance with the Pharmacy & Medicines Act, 1941, in that the label did not include a statement of ingredients or composition.	Vendor, a local chemist, warned. Other bottles of the same mixture were in window, correctly labelled.
25	Meat Paste	F	Contained a small amount of soya product. Under the Cereal Fillers Order 1943, No. 545, soya is not to be used in any cereal filler in the manufacture of articles of food containing meat or fish.	No action taken.
60	Fruit Sauce	I	Contained 200 parts of sulphur-dioxide per million.	No action taken. Analyst's observation was "probably due to the use of an ingredient containing sulphur-dioxide."
55	Milk	F	Deprived of 9% of its original milk fat.	See Nos. 66 and 67.
66	Milk	F	Deficient in milk fat—2.45%	'Appeal to cow' samples in connection with sample No. 55.
67	Milk	F	Deficient in milk fat—2.45%	
71	Milk	F	Deprived of 8% of its original milk fat.	See Nos. 88, 90, 91 and 92.
72	Milk	F	Deprived of 11% of its original milk fat.	See Nos. 84, 85 and 87.



Serial No.	Article	Formal (F) or Informal (I)	Nature of Adulteration or Irregularity	Observations
84	Milk	F	Deficient in milk fat—2.67%	} 'Appeal to cow' samples in connection with sample No. 72.
85	Milk	F	Deficient in milk fat—2.82%	
87	Milk	F	Deficient in milk fat—2.80%	
90	Milk	F	Deficient in milk fat—2.82%	} 'Appeal to cow' samples in connection with sample No. 71.
91	Milk	F	Deficient in milk fat—2.87%	
92	Milk	F	Deficient in milk fat—2.60%	
95	Milk	F	Deprived of 14.0% of its original milk fat.	See samples Nos. 109 and 111.
109	Milk	F	Slightly deficient in non-fatty milk solids—8.46%	} 'Appeal to cow' samples in connection with sample No. 95.
111	Milk	F	Deficient in non-fatty milk solids—8.33%	
148	Green Tea	I	Sample consisted of broken leaves of Maté (Ilex Paraguayensis). Maté is used as a substitute for tea, but bears no resemblance to green tea, which is tea prepared by a special process.	Formal sample obtained, see No. 149.
149	Green Tea	F	Sample consisted of broken leaves of Maté (Ilex Paraguayensis). Maté is used for the preparation of a decoction similar to tea. Green Tea is tea (Camellia Thea) prepared by a special process.	There appeared to be no suggestion of wilful substitution in this case. The substance of the Analyst's report was therefore conveyed to the vendor, who undertook not to sell Maté as Green Tea in future.
157	Beef Sausage	I	The sample was slightly deficient of meat. Total meat 45%	Formal sample obtained and found to be genuine.
179	Indian Brandee	I	Deficient of ethyl nitrite. Ethyl nitrite 0.006%	Vendor warned.

## LANCASHIRE COUNTY COUNCIL (RIVERS BOARD AND GENERAL POWERS) ACT, 1938

Sections 115 and 116 of this Act, which came into operation on the 1st of April, 1939, have been adopted by the Corporation and were administered during 1948. All persons and premises classified under the provisions of these sections of the Act have been visited and the Inspectors reports show that a satisfactory standard of cleanliness is being maintained.

These Sections provide for:—

1. The Registration of Hawkers of Meat, Fish, Fruit and Vegetables, and of their premises (if any) for the storage of such goods.
2. The Registration of premises used in connection with the manufacture, sale or storage of ice cream.
3. The Registration of premises used in connection with the manufacture of sausage, potted, pressed, pickled or preserved meat, fish or other food intended for sale.

### ICE CREAM

All premises at which this commodity is manufactured or sold were inspected, and 55 samples were taken for bacteriological examination.

262 visits of inspection were made during the year.

### MEAT AND OTHER FOODS

There are no slaughterhouses in the Borough. Practically all the meat which comes into this area is from the Liverpool Corporation Abattoir.

The inspection of food premises is carried out by inspectors possessing the necessary qualifications. Shops, vehicles and premises where food is prepared, stored, conveyed or sold are kept under constant supervision. In carrying out this work the following visits of inspection were made:

Butchers Shops, 143 visits.

Other Food Shops, Vehicles and Premises, 537 visits.



The following articles of food, being unfit for human consumption, were voluntarily surrendered, and where necessary, destroyed. In certain cases, on the undertaking that it would not be used for human consumption, the food was returned to the wholesaler or the Ministry of Food, and utilised for other purposes.

American Corn .....	1 tin.	Lobster Paste .....	1 jar.
Apricots .....	26 tins.	Milk (condensed).....	52 tins.
Beans & Pork .....	2 tins.	Milk (evaporated) .....	238 tins.
Beans.....	103 tins.	Marmalade .....	6 lbs.
Bacon .....	10 tins.	Marmalade .....	29½ lbs.
Beef Broth .....	1 tin.	Meat Paste .....	13 jars.
Beef Loaf (minced).....	9 tins.	Mustard .....	1 tin.
Beetroot .....	15 tins.	Meat Luncheon .....	29 tins.
Brawn .....	1 tin.	Meat & Vegetables .....	8 tins.
Barley Flakes .....	50 lbs.	Meat Extract .....	3 jars.
Carrots & Peas.....	3 tins.	Meat (Potted) .....	4 jars.
Carrots .....	22 tins.	Macedoines .....	2 tins.
Corned Beef Hash .....	3 tins.	Mussels.....	50 tins.
Chutney .....	1 bottle.	Olives .....	1 bottle.
Cherries .....	1 tin.	Oranges.....	4 tins.
Crab Paste .....	11 tins.	Orange Juice .....	3 tins.
Crawfish .....	1 tin.	Oysters .....	1 tin.
Cake Flour .....	2 pkts.	Ox Tongue .....	3 tins.
Crispbread .....	7 pkts.	Pig's Feet .....	38
Cheese .....	1¼ lbs.	Pineapples .....	7 tins.
Cod Roe Paste.....	1 tin.	Prunes .....	8 lbs.
Dates.....	34 pkts.	Pate de Foie.....	1 tin.
Dates.....	10¾ lbs.	Pilchards .....	23 tins.
Dessert Mould.....	21 pkts.	Peas .....	143 tins.
Eggs (dried) .....	2 tins.	Pork .....	13 tins.
Eggs .....	40	Potatoes .....	5 tins.
Fruit Cocktail .....	9 tins.	Potatoes .....	2½ cwt.
Fruit Salad .....	4 tins.	Pudding Mixture.....	6 pkts.
Fish Paste.....	6 jars.	Pickles .....	208 botts.
Fish (Hake) .....	1 tin.	Poultry .....	45 head.
Fish .....	546 lbs.	Plums .....	1 bottle.
Fish Cakes .....	48	Plums .....	45 tins.
Grapes .....	8 tins.	Peaches.....	9 tins.
Groats .....	1 tin.	Pears .....	6 tins.
Grapefruit .....	8 tins.	Pickled Cabbage .....	5 jars.
Grapefruit juice .....	3 tins.	Rhubarb .....	2 tins.
Gelatine .....	1 tin.	Salmon .....	22 tins.
Gooseberries .....	1 bottle.	Sardines .....	31 tins.
Ham (chopped) .....	3 tins.	Semolina .....	3 pkts.
Ham .....	13¼ lbs.	Semolina .....	1½ lbs.
Herring Spread .....	11½ tins.	Sultanas .....	5 lbs.
Ice Cream Powder .....	34 lbs.	Sausages .....	5 tins.
Irish Stew.....	1 tin.	Sausages .....	22½ lbs.
Jam .....	46 tins.	Sausage Meat .....	1 lb.

Spinach.....	4 tins.	Veal & Ham.....	2 tins.
Soups.....	117 tins.	Veal Loaf .....	15 tins.
Spinach Puree .....	1 tin.	Veal (jellied).....	7 lbs.
Spaghetti & Meat .....	4 tins.	Wafer Wheat Flakes .....	1 pkt.
Steak & Kidney .....	2 tins.	Walnuts .....	24 lbs.
Steak (casserole) .....	13 tins.		
Spaghetti .....	6 pkts.		
Sponge Mixture .....	11 pkts.	MEAT INSPECTION.	
Sugar Confectionery .....	56 lbs.		
Salmon Paste .....	1 tin.	Pigs—all tuberculous.	
Steak & Carrots .....	2 tins.		
Scottish Oats .....	8 lbs.	Carcase Meat .....	25 lbs.
Sauce.....	1 bottle.	Heads .....	20 lbs.
Scotch Broth .....	2 tins.	Livers .....	19 lbs.
Tomatoes .....	30 tins.	Mesenteries .....	8 lbs.
Tomato Juice .....	24 tins.	Spleens .....	1 lb.
Treacle Pudding .....	1 tin.	Hearts .....	2 lbs.
Vegetables .....	15 tins.	Kidneys .....	1 lb.
		Lungs .....	3 prs.

### MILK SUPPLY 1948

At the end of 1948, there were 16 cowkeepers on the register. The number of dairies and milk shops on the register, other than those belonging to cowkeepers, is 22.

The visits of inspection made during the year numbered 510. Of 128 samples of milk taken in the Borough and submitted for examination 2 or 1.6% of the total were found to contain tubercle bacilli. The County Medical Officer of Health was notified in each instance, and examination of the respective herds was subsequently carried out by the Veterinary Inspectors of the Ministry of Agriculture and Fisheries. The animals found to be infected were removed and slaughtered.

### CLEANLINESS OF MILK SUPPLY

The standard of cleanliness adopted by the Corporation is that B.Coli should be absent in 1/100 cc., and that the milk should satisfy a methylene blue test. 128 samples of milk were submitted for bacteriological examination during the year, and of these 87, or 68 per cent, reached the required standard of cleanliness; 41 were found to have B.Coli present in 1/100 c.c. and 13 failed to pass the methylene blue test.

All producers of samples failing to reach the required standard were visited and requested to exercise more care in their methods of production and in the handling and storage of milk.

The gradual improvement in the quality of our milk supply, to which reference was made last year, has continued during 1948.

## MILK (SPECIAL DESIGNATIONS) ORDER, 1936

Four cowkeepers hold licences from the Lancashire County Council for the production of accredited milk.

The Corporation granted dealers' licences to 31 purveyors of tuberculin tested milk, and to 6 purveyors of pasteurised milk. One dairyman holds a licence to bottle and sell tuberculin tested milk. In addition six supplementary licences to use the designations Tuberculin Tested or Pasteurised in relation to milk retailed in the Borough were granted to purveyors of milk retailing in the Borough by deliveries from dairies in neighbouring areas.

## BAKEHOUSES

At the end of 1948 there were 34 bakehouses in the Borough, 3 of these being basement bakehouses. All bakehouses were inspected, and generally were found to be maintained in a clean and satisfactory condition, 60 visits being made during the year.

In several instances bakehouses were noticed to be in need of cleansing and limewashing, and on notifying the occupier the matter was promptly remedied. Various minor defects were noted and on intimation were subsequently rectified.

In accordance with the provisions of Section 54 of the Factories Act, 1937, Certificates of Suitability are in existence in respect of the three basement bakehouses.

## SECTION 5

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### **Prevalence of, and Control over Infectious Diseases**

#### INFECTIOUS DISEASES NOTIFIED

During the year 1024 cases of infectious disease were notified. The figure gives a general attack rate of 17.3 per 1000 of the estimated population. The following table gives details of the cases notified, removed to hospital, etc.

##### DIPHThERIA

One case of Diphtheria was notified during 1948 as compared with 4 cases in 1947.

The number of cases of Diphtheria becomes less year by year. As a result of immunisation, Diphtheria is becoming a rarity, there having been no deaths from the disease in the Borough since 1944.

##### GENERAL

Enquiries were made into each case of infectious disease notified, 283 visits being made by the Sanitary Inspectors under this heading. Intimations were sent to the Education Department regarding all school children from houses where cases occurred, and when necessary, similar intimations were sent to the Public Libraries.

##### DISINFECTION

Disinfection was carried out at houses where infectious disease occurred, entailing the disinfection of 267 rooms at 250 premises. In addition, 2382 articles of clothing, bedding, etc., and 493 library books were removed from such houses and treated at the disinfecting station.



## Table of Infectious Diseases

Disease	Number of cases originally notified	Total cases after revision of diagnosis	Summary of age groups.								Number removed to Hosp.	Total deaths				
			Under one	1-2	2-3	3-4	4-5	5-10	10-15	15-20			20-35	35-45	45-65	65 & over
Scarlet Fever	72	70	—	2	3	5	9	35	8	3	2	2	1	—	27	1
Whooping Cough	158	157	15	20	26	20	16	55	—	—	1	3	1	—	4	1
Diphtheria & Membranous Group	19	1	—	—	—	—	—	—	1	—	—	—	—	—	1	—
Measles	727	728	30	74	83	101	99	327	8	2	4	—	—	—	24	2
Acute Primary or Influenzal Pneumonia	35	37	7	2	1	3	—	3	2	—	3	3	6	7	7	1
Cerebro-spinal Fever	9	6	1	2	—	—	—	1	—	1	1	—	—	—	6	2
Acute Poliomyelitis	1	1	—	—	—	—	—	—	—	—	—	1	—	—	1	—
Acute Polio-encephalitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Acute Encephalitis Lethargica	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dysentery	5	5	1	2	1	—	—	1	—	—	—	—	—	—	4	1
Ophthalmia Neonatorum	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Puerperal Pyrexia	3	3	—	—	—	—	—	—	—	1	1	1	—	—	1	—
Smallpox	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paratyphoid Fevers	2	2	—	—	—	—	—	1	—	—	1	—	—	—	2	—
Enteric or Typhoid Fever	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Erysipelas	14	13	—	—	—	—	—	—	—	—	—	3	6	4	—	—
Malaria	1	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—
Cholera	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Plague	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Typhus Fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Relapsing Fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTALS	1048	1025	55	102	114	129	124	423	19	7	13	13	15	11	77	8

**Infectious Diseases (other than Tuberculosis) after  
correction, Notified by Months during 1948**

MONTH	Scarlet Fever	Whooping Cough	Diphtheria	Measles	Pneumonia	Cerebo-Spinal F.	Poliomyelitis	Dysentery	Ophthalmia Neon.	Puerperal Pyrexia	Paratyphoid Fevers	Enteric or Typhoid	Erysipelas	Malaria	Totals
January .....	10	3	1	10	4	1	-	-	-	-	-	-	1	-	30
February .....	3	2	-	17	2	-	-	2	-	1	-	-	-	-	27
March .....	14	3	-	76	6	2	-	-	-	-	-	-	1	-	102
April .....	6	3	-	60	3	-	-	1	-	-	-	-	-	-	73
May .....	5	4	-	155	9	-	-	-	-	-	-	-	2	-	175
June .....	3	6	-	95	4	1	-	-	-	1	1	-	1	-	112
July .....	6	13	-	63	2	-	-	-	-	-	1	-	-	1	86
August .....	2	32	-	35	2	-	-	1	-	1	-	-	-	-	73
September.....	4	17	-	7	1	1	-	-	1	-	-	-	1	-	32
October.....	2	19	-	20	1	1	-	1	-	-	-	-	2	-	46
November .....	6	35	-	93	2	-	-	-	-	-	-	-	1	-	137
December.....	9	20	-	97	1	-	1	-	-	-	-	-	4	-	132
Totals .....	70	157	-	1 728	37	6	1	5	1	3	2	-	13	1	1025





Numbers of cases of Notifiable Infectious Disease (after correction), during each year since the formation of the Borough.

Disease	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948
Scarlet Fever	83	124	474	109	76	53	104	150	140	122	102	70
Whooping Cough .....	37	4	1	26	138	19	48	41	22	94	80	15
Diphtheria & Memb. Croup	87	223	146	103	181	149	80	41	40	15	4	
Measles .....	278	474	28	893	72	328	534	515	145	378	327	72
Pneumonia (acute primary or influenzal)	63	36	38	74	73	42	82	42	26	21	30	3
Cerebro-spinal Fever	—	—	1	17	17	4	6	9	4	6	5	1
Acute Poliomyelitis	—	2	—	2	—	—	—	1	1	1	2	
Acute Polio-encephalitis	—	—	—	1	—	—	—	—	—	—	—	—
Acute Encephalitis Lethargica...	—	—	—	—	—	—	—	—	—	—	—	—
Dysentery ...	—	—	—	—	—	1	—	2	1	6	—	—
Ophthalmia Neonatorum	4	8	9	19	9	1	2	—	2	—	1	
Puerperal Pyrexia ...	1	2	4	6	2	2	4	—	1	1	3	
Smallpox .....	—	—	—	—	—	—	—	—	—	—	—	—
Paratyphoid Fevers .....	—	—	—	—	—	—	5	3	2	—	—	
Enteric or Typhoid Fever .....	7	8	2	5	34	—	1	—	—	—	1	—
Erysipelas ...	20	23	27	32	15	14	16	15	17	9	10	1
Malaria .....	—	—	—	1	1	1	—	4	1	1	—	
Cholera .....	—	—	—	—	—	—	—	—	—	—	—	—
Plague .....	—	—	—	—	—	—	—	—	—	—	—	—
Typhus Fever	—	—	—	—	—	—	—	—	—	—	—	—
Relapsing Fever .....	1	—	1	—	—	—	—	—	—	—	—	—
Number of non-civilian cases included in the above figures.			—	61	19	17	16	21	5	—	2	—

## \*SECTION 6.

### Immunisation

#### DIPHTHERIA

The facilities for immunisation against Diphtheria which have been available to residents for several years were continued during 1948.

The prophylactics used were supplied by Messrs. Burroughs, Wellcome & Co.

For young children, the method of treatment adopted consists of two injections of A.P.T. at an interval of one month, the first injection being 0.2. c.c., and the second 0.5 c.c. For older children and adults, three injections of T.A.F., each of one c.c., are administered at fortnightly intervals.

	Under 5 yrs.	5-15 yrs.	Total
Number of children who have completed a full course of immunisation during the year 1948	694	68	762
Estimated number of the child population who have completed a full course of immunisation by the end of 1948	1875	4492	6367
Percentage of the child population treated at the end of 1948	35%	54%	47%

\*Transferred to Lancashire County Council on 5/7/48.

## DIPHTHERIA IMMUNISATION

Age	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948
0+	16	13	7	1	2	4	2	18	20	1	3	2	26	57	26
1+	59	33	23	15	21	15	20	131	229	180	210	299	361	314	477
2+	40	29	17	8	27	37	78	90	160	86	110	162	51	55	127
3+	61	94	26	6	27	32	75	83	145	41	30	76	52	13	32
4+	48	33	26	9	26	58	78	96	154	37	34	34	33	24	32
5+	77	80	43	16	52	56	23	105	205	75	24	32	20	16	34
6+	44	38	29	11	38	47	22	75	170	35	37	31	14	12	18
7+	37	30	18	7	32	47	12	52	133	31	27	11	10	15	6
8+	65	63	27	24	43	38	10	59	136	30	13	6	4	7	6
9+	48	34	11	9	14	30	8	30	120	36	17	2	8	5	2
10+	46	34	24	6	30	34	6	42	131	37	21	7	6	4	1
11+	35	38	24	6	16	34	6	23	113	46	12	2	—	4	1
12+	51	64	27	16	26	50	9	22	106	46	13	2	3	3	—
13+	28	36	14	10	15	35	6	13	103	17	15	2	3	2	—
14+	17	8	—	2	8	52	6	2	31	12	6	1	—	5	—
15+	15	10	1	10	74	18	2	18	1	24	—	—	1	3	2
	687	637	317	156	451	587	363	859	1957	734	572	669	592	539	764

Total number of children under five years of age:—1,875.

Total number of children from five to fifteen years of age:—4,492



SECTION 7.

Tuberculosis

Under the Public Health (Tuberculosis) Regulations, 1930, 79 new cases were notified in 1948 as suffering from this disease, 70 pulmonary cases and 9 non-pulmonary cases.

In the same period 40 cases were removed from the register after notification of death.

Details of all new cases and deaths are given in the table below.

Comparative figures for 1947, namely 82 cases notified and 45 removed from the Register after death, indicate a decrease in the incidence of this disease during 1948.

In accordance with the provisions of the Public Health (Tuberculosis) Regulations, 1940, particulars of all cases falling within the specified age groups were sent to the County Medical Officer of Health for transmission to the Ministry of Labour and National Service.

The activities of the Lancashire County Council organisation responsible for the treatment of tuberculosis within the Borough, were well maintained during the year. Good co-operation exists between this Department and the local Dispensary.

Age Groups	NEW CASES					DEATHS				
	Pulmonary		Non-Pulmonary		Total	Pulmonary		Non-Pulmonary		Total
	M.	F.	M.	F.		M.	F.	M.	F.	
0+ .....	....	....	1	....	1	....	....	1	....	1
1+ .....	....	....	1	1	2	....	....	1	1	2
5+ .....	2	....	....	....	2	....	....	....	....	....
10+ .....	1	2	....	....	3	....	....	....	....	....
15+ .....	2	7	1	1	11	1	3	....	....	4
20+ .....	4	6	....	2	12	....	2	....	1	3
25+ .....	8	7	....	....	15	2	7	....	....	9
35+ .....	9	1	....	....	10	4	3	....	....	7
45+ .....	6	6	2	....	14	2	2	....	....	4
55+ .....	7	....	....	....	7	6	....	....	....	6
65+ .....	2	....	....	....	2	3	1	....	....	4
Totals .....	41	29	5	4	79	18	18	2	2	40

**Incidence of Tuberculosis in Crosby since the  
Formation of the Borough**

Years	New Cases			Deaths from Tuberculosis		
	Pulmonary	Non-Pulmonary	Total	Pulmonary	Non-Pulmonary	Total
1937	66	19	85	35	6	41
1938	58	20	78	35	4	39
1939	53	23	76	26	5	31
1940	71	12	83	41	5	46
1941	77	18	95	47	12	59
1942	70	15	85	40	4	44
1943	73	20	93	40	2	42
1944	84	20	104	36	8	44
1945	68	16	84	36	3	39
1946	96	13	109	47	7	54
1947	68	14	82	41	4	45
1948	70	9	79	36	4	40

## SECTION 8

## Shops Acts, 1912-1938

The routine inspection of shops under the above Acts was continued during 1948. A total of 566 inspections was made during the year, and defects and contraventions discovered were referred to the persons responsible. These matters received prompt attention and were dealt with informally. At the end of the year there were 946 occupied shops on the register. There are very few empty shops in the area.

## SECTION 9

## Factories Act, 1937

## INSPECTIONS for purposes of provision as to health

Premises	Number on Register	Number of		
		In- spections	Written notices	Occupiers Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities ...	65	115	-	-
(ii) Factories not included in (i) in which Sec. 7 is enforced by the Local Authority ...	122	205	2	-
(iii) Other Premises in which Sec. 7 is enforced by the Local Authority (excluding out-workers' premises) ...	5	16	-	-
TOTAL ...	192	336	2	-

## 2. CASES IN WHICH DEFECTS WERE FOUND.

Particulars	Number of cases in which defects were found				Number of cases in which Prosecutions were Instituted
	Found	Remedied	To H.M. Inspector	By H.M. Inspector	
Want of cleanliness (S.1.) ...	6	6	—	—	—
Overcrowding (S.2.) ...	—	—	—	—	—
Unreasonable temperature (S.3.)	—	—	—	—	—
Inadequate ventilation (S.4.) ...	1	1	—	—	—
Ineffective drainage of floors (S.6.)	—	—	—	—	—
Sanitary Conveniences (S.7.) ...					
(a) insufficient ...	3	3	—	1	—
(b) Unsuitable or defective ...	5	4	—	1	—
(c) Not separate for sexes ...	—	—	—	—	—
Other offences against the Act (not including offences relating to Outwork) ...	5	5	—	—	—
TOTAL ...	20	19	—	2	—

## HOME WORKERS

Occupiers of factories from which work of certain kinds is given out are compelled to keep a list of outworkers employed by them, and to send a copy of the list to the Local Authority in February and August of each year. Such lists were received relating to four outworkers, all engaged in the making of wearing apparel.

The home workers were visited on each occasion and the premises found to be satisfactory.



## SECTION 10

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### Housing and Environmental Hygiene

#### NUMBER OF NEW HOUSES ERECTED DURING THE YEAR

(a). Total .....	122
1. By the Local Authority.....	74
2. By other Local Authorities .....	Nil
3. By other bodies or persons .....	37
4. War-damaged houses re-built .....	11
(b). With State Assistance under the Housing Acts:—	
1. By the Local Authority.....	74 (as above)
2. By other bodies or persons .....	6 (temporary bungalows included above)

#### INSPECTION OF THE DISTRICT

During the year 2035 premises were inspected in the district.

As a result of these inspections it was necessary to serve 2013 preliminary notices on the owners or occupiers. In the majority of cases these notices received prompt attention. In some instances it was necessary to report the existence of nuisances to the Health Committee and Statutory Notices were ordered to be served. It was found necessary to serve 525 Statutory Notices. The various premises were visited during the progress of the work with the object of ensuring that the nuisances enumerated in the notices were satisfactorily abated, the number of such re-inspections being 6657. During the year 6212 nuisances were discovered and 5647 abated.

In eight cases legal proceedings were instituted for failure to comply with statutory notices, and orders were made by the court requiring the defendants to carry out the necessary work.

Intimations were sent to the Borough Engineer's Department on 112 occasions regarding the following matters noted during inspections of the district.

Choked or damaged sewers and drains .....	36
Dangerous walls and buildings .....	23
Defective paving .....	19
Refuse and debris removal .....	13
Public Convenience defects .....	2
Sundry complaints and defects .....	19

In all cases the intimations received prompt attention.

## INSPECTION OF DWELLING-HOUSES DURING THE YEAR

1. (a). Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts) ..... 2,035
- (b). Number of inspections made for the purpose ..... 8,692
2. (a). Number of dwelling-houses (included under (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925 ..... —
- (b). Number of inspections made for the purpose ..... —
3. Number of houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation .... —
4. Number of dwelling-houses (exclusive of (3) above) found not to be in all respects reasonably fit for human habitation 2,013

## REMEDY OF DEFECTS WITHOUT SERVICE OF FORMAL NOTICES

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers..... 1,535

## ACTION UNDER STATUTORY POWERS

Proceedings under Public Health Acts:—

- (1). Number of dwelling-houses in respect of which notices were served requiring defects to be remedied 525
- (2). Number of dwelling-houses in which defects were remedied after service of formal notices:—
  - (a). By owners ..... 594
  - (b). By Local Authority in default of owners ..... —

Proceedings under Sections 11 and 13 of the Housing Act, 1936:—

- (1). Number of dwelling-houses in respect of which Demolition Orders were made ..... —
- (2). Number of dwelling-houses demolished in pursuance of Demolition Orders ..... —

## OVERCROWDING

Though the Council have continued their efforts to relieve overcrowding by re-housing the most urgent cases, the day is probably far distant when this very serious evil will no longer be a source of anxiety.

## OFFENSIVE TRADES AND FISH FRIERS

There are no premises in the Borough at which offensive trades are carried on.

There were 27 fish frying establishments on the register at the end of 1948. 51 visits of inspection were made during the year and in all cases the premises were found to be maintained in a clean and satisfactory condition. Minor matters discovered on inspection were all remedied informally.

## HOUSE REFUSE

This work is carried out under the direction of the Borough Engineer and is supervised by the Cleansing Superintendent.

For the removal of household refuse the Pagefield System is in operation, except for Hightown and Little Crosby area; the removal of refuse is by means of a covered motor vehicle. In Little Crosby Village, where the closet and refuse accommodation is mainly of the privy midden type, the middens are emptied by the Corporation workmen, and local farmers remove the refuse on to the land for manure.

Ashbins and pail closets are emptied weekly, and privy middens at intervals of approximately two months.

Shop refuse is removed twice weekly by means of a covered motor vehicle, and the charge for collection is 3d. per bin after one free bin.

The Corporation dispose of the refuse by controlled tipping.

During the year, 13,815 tons of refuse were collected by the Pagefield system, and 1,541 tons by other motor vehicles. The total amount of refuse removed being 15,356 tons. In addition to this the Corporation removed, during the year, 383 tons of salvage.

## STREAMS AND WATERCOURSES

The streams and ditches are cleansed and bottomed by their respective owners, and receive frequent inspection. Rimrose Brook, which is situated on the eastern boundary, is polluted mainly by the effluent from a large piggery outside the Borough. This effluent has a very offensive smell, contains too much suspended matter to discharge into any watercourse, and gives rise to a nuisance during the summer season when there is little dilution taking place.

Representations are made when necessary to the Authority in whose district the piggery is situated.



## SMOKE ABATEMENT

There are six factory chimneys in the Borough, four laundries, one brick works and one large mail order stores.

As a result of representations from the department, the chimney at a laundry in the Borough has been raised and the boiler repaired. The reduced smoke emission, with the improved diffusion due to the higher chimney, has resulted in a marked reduction in a serious local atmospheric pollution in a congested area of the Borough.

There are no Byc-Laws in force under the Public Health (Smoke Abatement) Act, 1926, or the Public Health Act, 1936.

## CINEMAS

There are seven cinemas in the Borough. All were inspected and found to be well conducted.

## ERADICATION OF BED BUGS

The methods employed for the freeing of infested houses from bed bugs are:—the removal of infested bedding and clothing etc., to the disinfecting station, and the spraying of the rooms thoroughly with an insecticide.

All complaints received regarding infestation were investigated, and the number of houses found to be infested was:—

Council Houses, 13.

Other Houses, 138.

182 visits of inspection were also recorded under this heading during the year. 151 other premises were disinfested during the year on account of infestation by fleas, moths, cockroaches, etc.

## TENTS, VANS AND SHEDS

There are now no temporary dwellings in the Borough.

## RATS AND MICE DESTRUCTION ACT, 1919

Complaints were received regarding rat infestation, and the ensuing investigations entailed 1838 visits. These complaints were mainly from lands and premises in or near the agricultural portion of the Borough. In some instances, informal notices were served upon the owners or occupiers of infested premises requiring them to take such measures as directed to abate, and further prevent such infestation. In all cases, the requirements of the notices were complied with.

The methods of rodent control recommended by the Ministry of Food are usually employed, but dogs and ferrets are still occasionally used in the agricultural parts of the Borough.



Sewers in the Borough have been treated for the presence of rats twice during the year. The table below sets out the result of the treatments.

				1st Treatment	2nd Treatment
Number of Manholes baited				425	452
”	”	”	showing pre-bait ‘take’	94	107
”	”	”	showing complete ‘take’	84	75
”	”	”	showing partial ‘take’	10	32
”	”	”	showing bait untouched	331	345

PUBLIC ELEMENTARY SCHOOLS

At the end of 1948 there were 19 Public Elementary Schools in the Borough. The names of all the children who are excluded from school on account of infectious disease in their homes are notified to the Education Department, and the Head Teachers are also informed.

## SUMMARY OF WORK OF SANITARY INSPECTORS, 1948

## Public Health and Housing Acts

Number of dwelling houses inspected under Public Health Act	2035
"                    "          re-visited under Public Health Act	6657
"                    "          inspected re overcrowding	30
"                    "          inspected re vermin	182
"          complaints received and investigated	2024

## General Sanitation

Number of visits re Water supply	476
"          "          re Drainage	349
"          "          to Stables and piggeries	45
"          "          to Factories, work places, outworkers rooms	280
"          "          to Public Conveniences	38
"          "          to Theatres and Cinemas	6
"          "          re Refuse Collection and Deposit	70
"          "          re Rats and Mice	1838
"          "          to Petroleum Stores	51
"          "          to Watercourses and Ditches	5
"          "          re Infectious Diseases and Disinfection	355
"          "          re Smoke observations	23
"          "          to Common Yards and Passages	33

## Meat and Food Inspection

Number of visits to Butchers' Shops	143
"          "          to Cowsheds	164
"          "          to Dairies	346
"          "          to Fishmongers and Poulterers	66
"          "          to Fried Fish Shops	51
"          "          to Greengrocers and Fruiterers	61
"          "          to Grocers	140
"          "          to Bakehouses	60
"          "          to Restaurants	30
"          "          to Licensed Houses	29
"          "          to Ice Cream Premises	262
"          "          to Miscellaneous Food Premises	94
"          "          to Street Hawkers and Vendors	6
"          Food and Drug Samples taken	206
"          Milk Samples taken for bacteriological exam.	128
"          Ice Cream Samples taken	55

## Miscellaneous

Number of visits to Shops under Shops Act	566
Interviews with Owners, Contractors, etc.	459
Miscellaneous visits and inspections	751

## Disinfection

Number of rooms disinfected after infectious diseases	267
Number of articles of clothing, bedding, etc., disinfected after infectious diseases	2382
Number of library books disinfected after infectious diseases	493

## HOUSING AND ENVIRONMENTAL HYGIENE

45

Number of verminous rooms disinfested .....	377
Notices served and complied with	
Number of preliminary notices served .....	2013
Number of preliminary notices complied with .....	1535
Number of statutory notices served .....	526
Number of statutory notices complied with .....	594
Number of Nuisances abated and Defects remedied	
(a) Dwelling houses	
Roofs repaired or renewed .....	597
External walls repointed .....	186
Wall and ceiling plaster repaired .....	686
Floors repaired or renewed .....	215
Windows and sashcords repaired or renewed .....	894
Cooking ranges and fireplaces repaired or renewed .....	204
Coppers provided or repaired .....	16
Sinks provided or repaired .....	35
Water supplies repaired or provided .....	365
Rainwater pipes and eaves gutters repaired or renewed .....	346
Stairs, doors and woodwork repaired or renewed .....	300
Chimneys and stacks repaired .....	60
Yards and passages paved or repaired .....	86
Dangerous walls rebuilt .....	28
Dampness abated .....	370
Rooms cleansed and redecorated .....	2
Sink waste pipes renewed or repaired .....	116
Additional lighting or ventilation provided .....	2
Miscellaneous items .....	68
(b) Drainage	
Drains cleared of obstruction .....	161
Drainage repaired, reconstructed, etc. ....	36
(c) Water Closets	
New water closets provided .....	17
W.C. compartments repaired and cleansed .....	105
W.C. pedestals and cisterns repaired or renewed .....	377
(d) Dustbins	
New dustbins provided .....	289
(e) Miscellaneous	
Offensive accumulations removed .....	4
Verminous and dirty premises cleansed .....	5
Factories and bakehouses—defects and contraventions remedied .....	19
Food premises—defects and contraventions remedied .....	26

G. F. LEWIS,

Chief Sanitary Inspector.











